

DLP™ DATA DISPLAY User's Manual



MODEL:

VS-50XL50U VS-50XLW50U VS-50XLF50U VS-50XLWF50U VS-67XL50U (VS-67XL50U-SN) (SC-067XL50U) VS-67XLW50U (VS-67XLW50U-SN) SC-067XL50U VS-67XLF50U (VS-67XLF50U-SN) (SC-067XLF50U VS-67XLWF50U

Be sure to follow the directions below.

Warning:

This product requires special installation to prevent toppling.

Please ask installation specialists for installation. Don't attempt to install the product by yourself.

This user's manual is important to you. Please read it before using your product.

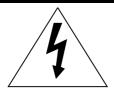
For MITSUBISHI dealer

Please read Set-up and Installation Manual before installing the product.

Trademarks

All brand names and product names herein are trademarks or registered trademarks of their respective companies.

DLP and DLP logo are trademarks of Texas instruments.



CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

NOTE:

SINCE THIS PRODUCT IS PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET MUST BE INSTALLED NEAR THE EQUIPMENT AND SHOULD BE EASILY ACCESSIBLE.

Important safeguards

Please read all these instructions regarding your DLPTM data display and retain them for future reference. Follow all warnings and instructions marked on the DLPTM data display.

1. Read instructions

All the safety and operating instructions should be read before the appliance is operated.

2. Retain instructions

The safety and operating instructions should be retained for future reference.

3. Warnings

All warnings on the appliance and in the operating instructions should be adhered to.

4. Instructions

All operating instructions must be followed.

5. Cleaning

Unplug the power cord from the wall outlet before cleaning it. Do not use liquid aerosol cleaners. Use a damp soft cloth for cleaning.

6. Attachments and equipment

Never add any attachments and/or equipment without the approval of the manufacturer as such additions may result in the risk of fire, electric shock or other personal injury.

7. Water and moisture

Do not use this product near water or in contact with water.

8. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket or table. Use only with a cart, stand, tripod bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the appliance should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.

9. Ventilation

Slots and openings in the cabinet are provided for ventilation, ensuring reliable operation of the product and to protect it from overheating. Do not block these openings or allow them to be blocked by placing the product on a bed, sofa, rug, or bookcase. Ensure that there is adequate ventilation and that the manufacturer's instructions have been adhered to.

10. Power sources

This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power, please consult your appliance dealer or local power company.

11. Power-cord protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords at plugs, convenience receptacles, and points where they exit from the appliance.

12. Overloading

Do not overload wall outlets and extension cords as this can result in a fire or electric shock.

13. Objects and liquids

Never push objects of any kind through openings of this product as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

14. Servicing

Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

15. Damage requiring service

Unplug the power cord from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- (a) If the power-supply cord or plug is damaged.
- (b) If liquid has been spilled, or objects have fallen into the product.
- (c) If the product does not operate normally after you follow the operating instructions. Adjust only those controls that are covered by the operating instructions. An improper adjustment of other controls may result in damage and may often require extensive work by a qualified technician to restore the product to its normal operation.
- (d) If the product has been exposed to rain or water.
- (e) If the product has been dropped or the cabinet has been damaged.
- (f) If the product exhibits a distinct change in performance - this indicates a need for service.

16. Replacement parts

When replacement parts are required, be sure that the service technician has used replacement parts specified by the manufacturer or parts having the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.

17. Safety check

Upon completion of any service or repair to this product, ask the service technician to perform safety checks determining that the product is in a safe operating condition.

WARNING:

Unplug immediately if there is something wrong with your product.

Do not operate if smoke, strange noise or odor comes out of your product. It might cause fire or electric shock. In this case, unplug immediately and contact your dealer.

Never remove the cabinet.

This product contains high voltage circuitry. An inadvertent contact may result in an electric shock. Except as specifically explained in the Owner's Guide, do not attempt to service this product yourself. Please contact your dealer when you want to fix, adjust or inspect the product.

Do not modify this equipment.

It can lead to fire or electric shock.

Use the optional specified power supply cord.

This apparatus must be grounded.

Place the product more than 5 cm (2 in.) from the wall (except at the rear) to prevent blocking the intake, exhaust slots and ventilation of this product because hot air comes out of it.

Carry the product by all four handles, not by two handles.

Do not use the product under the following circumstances, which may cause fire or electric shock.

- in a dusty or humid place
- · near a heater
- in a oily, smoky or damp place
- in direct sunlight
- with high temperature, such as the closed car
- where the temperature is lower than 10°C (50°F) or higher than 35°C (95°F)

for VS-50XLF50U, VS-50XLWF50U, VS-67XLF50U, VS-67XLWF50U the temperature is lower than 10°C (50°F) or higher than 30°C (86°F)

CAUTION:

Battery replacement of the optional remote control R-XL50TX

- Improper use may result in fire, injury, or spread dirt due to leakage, heat generation, or explosion.
- Replace all the batteries with new ones. Use two AA batteries (R6P).
- Load the batteries with their (+) and (-) sides correctly.
- Load the batteries from (-) sides first.

NOTE:

This symbol mark is for EU countries only.



This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV.

Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and reused.

This symbol means that electrical and electronic equipment, at their end-of-life, should be disposed of separately from your household waste. Please, dispose of this equipment at your local community waste collection/recycling centre. In the European Union there are separate collection systems for used electrical and electronic product.

Please, help us to conserve the environment we live in!

COMPLIANCE NOTICE OF FCC

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications.

Changes or modifications not expressly approved by Mitsubishi could void the user's authority to operate this equipment.

COMPLIANCE NOTICE OF INDUSTRY CANADA

This Class A digital apparatus complies with Canadian ICES-003.

COMPLIANCE NOTICE OF EC DIRECTIVE

This data display complies with requirements of 89/336/EEC, 2006/95/EC and 93/68/EEC. The requirements of susceptibility have chosen at a level, that makes interference free operation possible in living areas, office areas and light industry, related to indoor and outdoor operation. All places of operation are related to the public low voltage power supply.

This is a equipment of Class A. This device could cause interferences in residential areas; in the case of interferences it can be demand from the user to provide appropriate solutions and pay for it.

Warning:

This is class A information technology equipment. When used in a household environment, this product may cause radio interface. In such a case, the user may be required to take suitable countermeasures.

Specifications / Items sold separately

Model	VS-50XL50U	VS-50XLW50U	VS-50XLF50U	VS-50XLWF50U	VS-67XL50U	VS-67XLW50U	VS-67XLF50U	VS-67XLWF50U
Conom giro	50 inches	50 inches	$50 \mathrm{\ inches}$	50 inches	67 inches	67 inches	67 inches	67 inches
OCI CEII SIVE	(1015 x 761 mm)	(1015 x 761 mm)	(1015 x 761 mm)	(1015 x 761 mm)	(1359 x 1019 mm)	(1359 x 1019 mm)	(1359 x 1019 mm)	(1359 x 1019 mm)
RGB input	Resolution: VGA – S	Resolution: VGA - SXGA+, Horizontal: 31.5 to 78 kHz,	31.5 to 78 kHz, Vertica	Vertical: 49 to 85 Hz,				
signal supported	Pixel clock rate: 25 to 122 MHz	to $122~\mathrm{MHz}$						
Analog RGB Terminal	I			BNC $x ext{ 5 (RGBHV)}$	RGBHV)			
input			RGB signal level: 0.7	RGB signal level: 0.7 V (p-p) 75 Ω , Sync: TTL level (positive/negative) Sync On Green	L level (positive/nega	ative) Sync On Green	1	
Digital RGB Terminal				DVI-D	Q-:			
input Signal				TMDS	SO			
				RS-232C: D-Sub 9-pin	-Sub 9-pin			
Control			Mitsubishi o	bishi original control link: D-Sub 9-pin x 2 (input and output)	-Sub 9-pin x 2 (input	and output)		
Power consumption				195 W	M			
Power supply				AC 100 V – 240 V 50/60 Hz 2.5 A	7 50/60 Hz 2.5 A			
External Width	1016 mm	1016 mm (40 inch)	1017 mm (40 inch)	1017 mm (40 inch)	1361 mm (53.6 inch)	53.6 inch)	1362 mm (53.6 inch)	53.6 inch)
dimensions Height		982 mm (38.7 inch)	982.5 mm (38.7 inch)	982.5 mm (38.7 inch)	1180.3 mm (46.5 inch)	(46.5 inch)	1282.3 mm	1282.3 mm (50.5 inch)
protrusions) Depth) mm 232 mm (535 mm (21.1 inch)	595 mm (23.4 inch)	660 mm (26.0 inch)	778 mm (30.6 inch)	30.6 inch)	848 mm (33.4 inch)	33.4 inch)
Operating temperature	$10^{\circ}\text{C} - 35^{\circ}\text{C} (50^{\circ}\text{F} - 95^{\circ}\text{F})$	$(20^{\circ} \mathrm{F} - 95^{\circ} \mathrm{F})$	$10^{\circ}C - 30^{\circ}C (50^{\circ}F - 86^{\circ}F)$	$10^{\circ}\text{C} - 30^{\circ}\text{C} (50^{\circ}\text{F} - 86^{\circ}\text{F}) 10^{\circ}\text{C} - 30^{\circ}\text{C} (50^{\circ}\text{F} - 86^{\circ}\text{F}) $	$10^{\circ}\text{C} - 35^{\circ}\text{C} \ (50^{\circ}\text{F} - 95^{\circ}\text{F})$	$50^{\circ} \text{F} - 95^{\circ} \text{F})$	$10^{\circ}\text{C} - 30^{\circ}\text{C} \ (50^{\circ}\text{F} - 86^{\circ}\text{F})$	$(50^{\circ}F - 86^{\circ}F)$
and humidity	20 % -	20 % - 80 %	20% - 70%	20% - 70%	20% - 80%	% 08 :	20 % - 70 %	- 70 %
Weight	60 kg (132 lbs)	62 kg (137 lbs)	69 kg (152 lbs)	75 kg (165 lbs)	90 kg (198 lbs)	92 kg (203 lbs)	93 kg (205 lbs)	95 kg (209 lbs)
	User's manual							
	Joint parts (8 pcs. e	ach of hexagon socke	t head cap screws for	Joint parts (8 pcs. each of hexagon socket head cap screws for M6, flat washers, and spring washers)	l spring washers)			
Accessories	Control cable							
	Joint hole seal							
	Plastic tie (6 pcs. for VS-50XLF50U)	$r ext{ VS-50XLF50U}$						

Design and specifications are subject to change without notice.

)ption

• Input Board: VC-B50KA, VC-B50KV

Remote control for wireless and wired use: R-XL50TX

S-PH50LA (VS-50XLW50U, VS-50XLWF50U, VS-67XLW50U, VS-67XLWF50U) • Lamp for replacement: S-XL50LA (VS-50XL50U, VS-50XLF50U, VS-67XL50U)

• Power cord (North America): JC-PC3MA (125 V 10 A)

• Power cord (Europe) : JC-PC3ME (250 V 10 A)

• Power cord (China): JC-PC3MC (250 V 10 A)

• Screen unit: SC-067XL50B (VS-67XL50U, VS-67XLW50U) SC-067XLF50B (VS-67XLF50U, VS-67XLWF50U)

• Optional fan: JC-AF115R (VS-50XLF50U)

JC-AF230R (VS-50XLF50U)

Lamp replacement =

• VS-50XLW50U, VS-67XLW50U CAUTION Do not attempt to replace the lamp

This product is equipped with the lamp to display images generated by DLP^{TM} chip. This lamp is a consumable and it may lose its intensity or burn out during use. When the lamp intensity decreases, this product detects such decrease and switches the lamp to the built-in spare lamp automatically. (This function is called automatic lamp changer.) While the spare lamp is in use, a mark " \Leftrightarrow " blinks on the screen. (When the spare lamp burns out, a blue light blinks on the screen and "1." is displayed on the status display on the rear terminal panel.) When the spare lamp burns out, contact your MITSUBISHI dealer for replacement of the lamp and the adjustments for ensuring the same level of image quality as that before lamp replacement (such as the screen frame adjustment, CSC adjustment, and gradation adjustment). Do not attempt to replace the lamp and carry out the adjustments by yourself.

This product uses a lamp that contains mercury. Disposal of the lamp or the product with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or Electronic Industries Alliance: www.eiae.org. (For US only)

• VS-50XLF50U, VS-50XLWF50U CAUTION Do not attempt to replace the lamp

This product is equipped with the lamp to display images generated by DLPTM chip. This lamp is a consumable and it may lose its intensity or burn out during use. (When the lamp burns out, a blue light blinks on the screen.) When the lamp burns out, contact your MITSUBISHI dealer for replacement of the lamp and the adjustments for ensuring the same level of image quality as that before lamp replacement (such as the screen frame adjustment, CSC adjustment, and gradation adjustment). Do not attempt to replace the lamp and carry out the adjustments by yourself.

This product uses a lamp that contains mercury. Disposal of the lamp or the product with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or Electronic Industries Alliance: www.eiae.org. (For US only)

• VS-50XL50U, VS-67XL50U

This product is equipped with a lamp to display images generated the DLP^{TM} chip.

The lamp is a consumable. It may burn out or the brightness may decrease during operation. In such cases, replace the lamp with a new one as soon as possible.

(Blue light blinks on the screen when the lamp doesn't illuminate any more.)

You may purchase a new lamp from your authorized MITSUBISHI dealer.

Part number for the lamp used in the VS-50XL50U and VS-67XL50U is S-XL50LA

This product uses a lamp that contains mercury. Disposal of the lamp or the product with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or Electronic Industries Alliance: www.eiae.org. (For US only)

Warning:

- Be sure to turn off the main power switch and unplug the power cord from the wall outlet before replacing the lamp. Lamp replacement without turning off the main power may result in electric shock.
- Don't put metal or flammable object into the product. Using the product with any foreign object inside may result in electric shock or fire. When you can't remove a foreign object that has entered the projector, ask your MITSUBISHI dealer for removal.
- Insert the lamp firmly. When the lamp isn't installed properly, it won't illuminate. Improper
 installation may result in fire.

Caution:

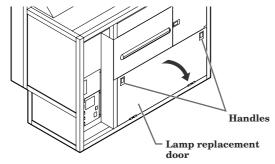
- The lamp gets very hot during operation. Don't replace the lamp immediately after operation because you may get burned or injured. Before replacing the lamp, turn off the power to extinguish the lamp and wait about one minute for the cooling fan to stop. Then turn off the main power switch, unplug the power cord from the wall outlet, and wait at least one hour to allow the lamp to cool down enough to the touch.
- Be sure to put gloves on when replacing the lamp.
- A high-pressure mercury lamp is used as the light source of this product. The high-pressure mercury lamp can explode or fail to illuminate permanently because of an impact, scratch, or deterioration through use. The period of time until explosion or permanent failure to illuminate varies considerably from lamp to lamp depending on operation conditions, etc. Therefore, the lamp may explode soon after you use it for the first time.
- Don't open the lamp replacement door for purposes other than lamp replacement. Unnecessary opening of the door may result in a failure.
- When you open the lamp replacement door for the purpose of lamp replacement, don't touch any parts inside that are not necessary for lamp replacement because you may get injured or a failure may occur.
- Don't open the lamp replacement door during operation. Unnecessary opening of the door may result in a failure.
- Don't remove screws other than specified. Removal of unspecified screws may result in a failure.

Lamp replacement (Only followed models: VS-50XL50U, VS-67XL50U)

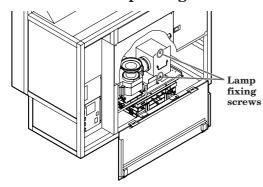
1. Turn off the main power switch and unplug the power cord from the wall outlet.

Wait at least one hour for the lamp to cool down.

2. Hold the handles by the fingers and pull the lamp replacement door open.

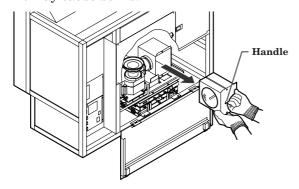


3. Loosen the two lamp fixing screws.



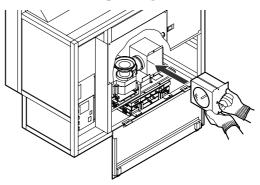
4. Hold the handle and pull out the lamp.

- Be sure to grip the handle with one hand and hold the lamp with the other hand to pull it out safely.
- Do not touch the glass envelope of the lamp. It may cause burns.

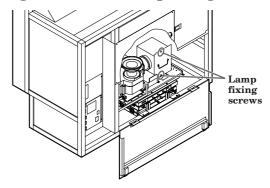


5. Insert a new lamp into the lamp storage to the end.

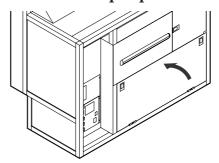
- Do not touch the glass envelope of the lamp with your fingers. The oil on your fingers may cause damage or explosion of the lamp.
- Be sure to grip the handle with one hand and hold the lamp with the other hand to insert it safely. Be careful not to pinch your hand in the lamp storage.



6. Tighten the two lamp fixing screws.



7. Close the lamp replacement door.



8. Carry out the adjustments after replacement of the lamp.

You can display images after replacing the lamp. However, the following adjustments are required to enjoy the equivalent image quality to that offered before the replacement of the lamp. Please contact your MITSUBISHI dealer for the following adjustments. Do not attempt to carry out the adjustments by yourself.

- Picture outline adjustment
- CSC adjustment
- Gradation adjustment

Troubleshooting =

Please check the following before contacting your dealer for service. Errors in signals are apt to be taken for problems in the product.

Problems	Ě		0.7	Remed	ies		
No image appears on the screen.	•	Check the ext	rect input sign ernal devices ernal devices		e terminals of the externments that the terminals firmly.		
Hue of the image is not appropriate.		Check the signal connection between the external device and the product.					
A blue light blinks on the screen, without image	•	When the lamp burns out or a failure occurs in the product, a blue light blinks on the screen. In such a case, check the state of the blinking blue light and the state of the status display on the rear terminal panel (except VS-50XLF50U, VS-50XLWF50U, VS-67XLF50U, VS-67XLWF50U) according to the following table.					
display.					Causes and solution	s	
		State of the blinking blue light	State of the status display	VS-50XL50U VS-67XL50U	VS-50XLW50U VS-67XLW50U	VS-50XLF50U VS-50XLWF50U VS-67XLF50U VS-67XLWF50U	
		Light on for 1 second, off for 1 second	STATUS	The lamp has burnt out, or failed. Contact your MITSUBISH	the lamp drive circuit has I dealer.	The lamp has burnt out or not been installed or not been installed	
			STANDS STANDS STANDS STANDS Displays number 2, 3, 4, 5 or 6.		The lamp has not been installed or not been installed properly. Contact your MITSUBISHI dealer.	properly, or the lamp drive circuit has failed. Contact your MITSUBISHI dealer.	
			STATUS [L] 97 STAND BY	The lamp has not been installed or not been installed properly. Contact your MITSUBISHI dealer.	The cover of the lamp changer is open. Contact your MITSUBISHI dealer.		
		Light on for 5 seconds, off for 1 second	STATUS 5, STAND BY	The color wheel has failed. Contact your MITSUBISHI dealer.	The color wheel has failed. The lamp changer has failed. Contact your MITSUBISHI dealer.	The color wheel has failed. Contact your MITSUBISHI dealer.	
		Light on for 1 second, off for 5 seconds	STATUS	The power circuit has faile Contact your MITSUBISH			
			STATUS	The lamp power control cir Contact your MITSUBISH		Contact your MITSUBISHI dealer.	
			STAND BY STAND BY STAND BY STAND BY Displays number 1, 2, 3, 4 or 5.	The cooling fan has failed. Contact your MITSUBISH	I dealer.		
			STATUS	The image processing circu Contact your MITSUBISH		-	

• VS-50XLF50U, VS-50XLWF50U, VS-67XLF50U, VS-67XLWF50U

During image display, text is displayed on the screen.

OVER TEMP

CHECK FILTER

• The ambient temperature may be too high, or the filter may be clogged. Confirm the display on the screen and take the required measures.

	State of the word White text, lit OVER TEMP Red text, flashing		Causes and solutions				
			The ambient temperature has risen or the filter has become clogged. Contact your MITSUBISHI dealer.				
			The ambient temperature has risen abnormally or the filter has become clogged. Stop the operation immediately and contact your MITSUBISHI dealer.				
	CHECK FILTER	White text, lit	The filter must be inspected. Contact your MITSUBISHI dealer.				

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